

FIGURE 1

## Anti-Ese1 Immunoprecipitations

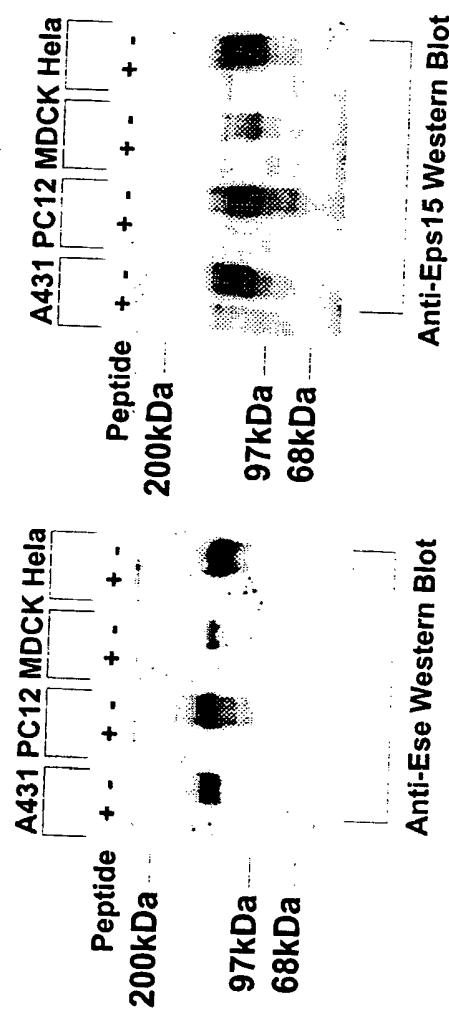
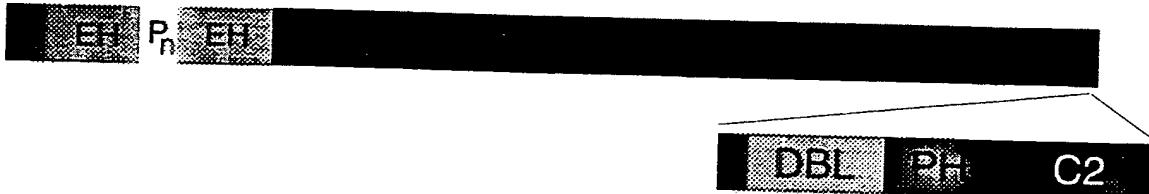


FIGURE 2A

Ese1L:



Ese2L:



Ese1 1204 ..... LTTDMMDPSQQWCSDLHLLDMLTPTERKRQGYIHELIIVTEENYVN-DLQLV 1252

Ese2 1143 ..... MTTDSDPQQWCADLQALDTMQPTERKRQGYIHELIQTEERYMDDDLQLV 1192

**DBL** \_\_\_\_\_

TEIFQKPLTESELLTEKEVAMIFVNWKELIMCNIKLLKALRVRKKMSGEK 1302

IEVFQKRMAMESGFLTEADMALIFVNWKELIMSNTKLLRALRVRKKTGGEK 1242

MPVKMIGDILSAQLPHMQPYIRFCSCQLNGAALIQQKTDEAPDFKEFVKR 1352

MPVQMIQDILAAELSHMQAYIRFCSCQLNGATLLQQKTDEDTDFKEFLKK 1292

LAMDPRCKGMPPLSSFILKPMQRVTRYPLIKNILENTPENHPDHSHLKHA 1402

LASDPRCKGMPPLSSFLLKPMQRITRYPLLIRSILENTPQSHVDHSSLKLA 1342

LEKAEELCSQVNEGVREREKNSDRLEWIQAHVQCEGLSEQLVFNSVTNCLG 1452

LEKAEELCSQVNEGVREREKNSDRLEWIQAHVQCEGLAEQLIFNSLTNCLG 1392

**PH** \_\_\_\_\_

PRKFLHSGKLYKAKSNKELYGFLFNDFLLLTQITKP-LGSSGTDKVFSPK 1501

PRKLLHSGKLYKTKSNKELHAFLFNDFLLTYLVRQFAAASGHEKLFNSK 1442

SNLQYKMYKTPIFLNEVLVKLPTDPSGDEPIFHISHIDRVYTLRAESINE 1551

SSAQFRMYKTPIFLNEVLVKLPTDPSGDEPVFHISHIDRVYTLRTDNINE 1492

**C2** \_\_\_\_\_

RTAWVQKIKAASELYIETEKKKREKAYLVRQRATGIGRMLVNVEGIEL 1601

RTAWVQKIKGASEQYIDTEKKKREKAYQARSQKTSGIGRMLVHIEATEL 1542

KPCRSHGKSNPYCEVTMGSOCHITKTIQDTLNPKWNNSNCQFFIRDLEQEV 1651

KACKPNGKSNPYCEVSMGSQSYTTRTLQDTLNPKWNFNCQFFIKDLYQDV 1592

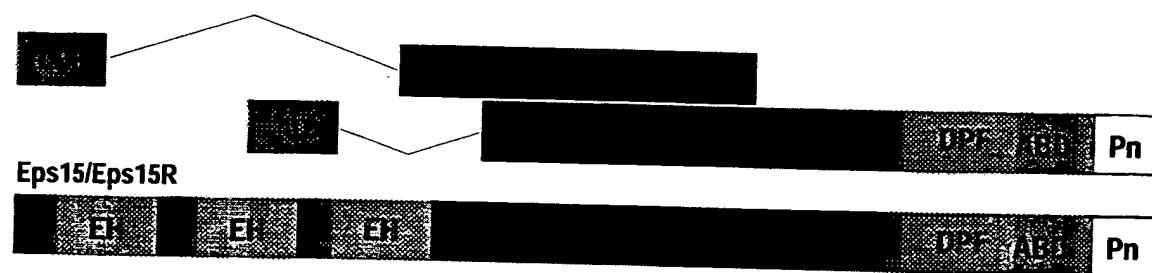
LCITVFERDQFSPDDFLGRTEIRVADIKKDQGSKGPVTKCLLHEVPTGE 1701

LCLTMFDRDQFSPDDFLGRTEVPVAKIRTEQESKGPTTRLLLHEVPTGE 1642

IVVRLLDLQLFDEP 1714

VWVRFDLQLFEQKTL 1658

FIGURE 2B

**A) Yeast two hybrid screen: Eps15 and Eps15R bind the Ese1 coiled-coil domain****FIGURE 3A**

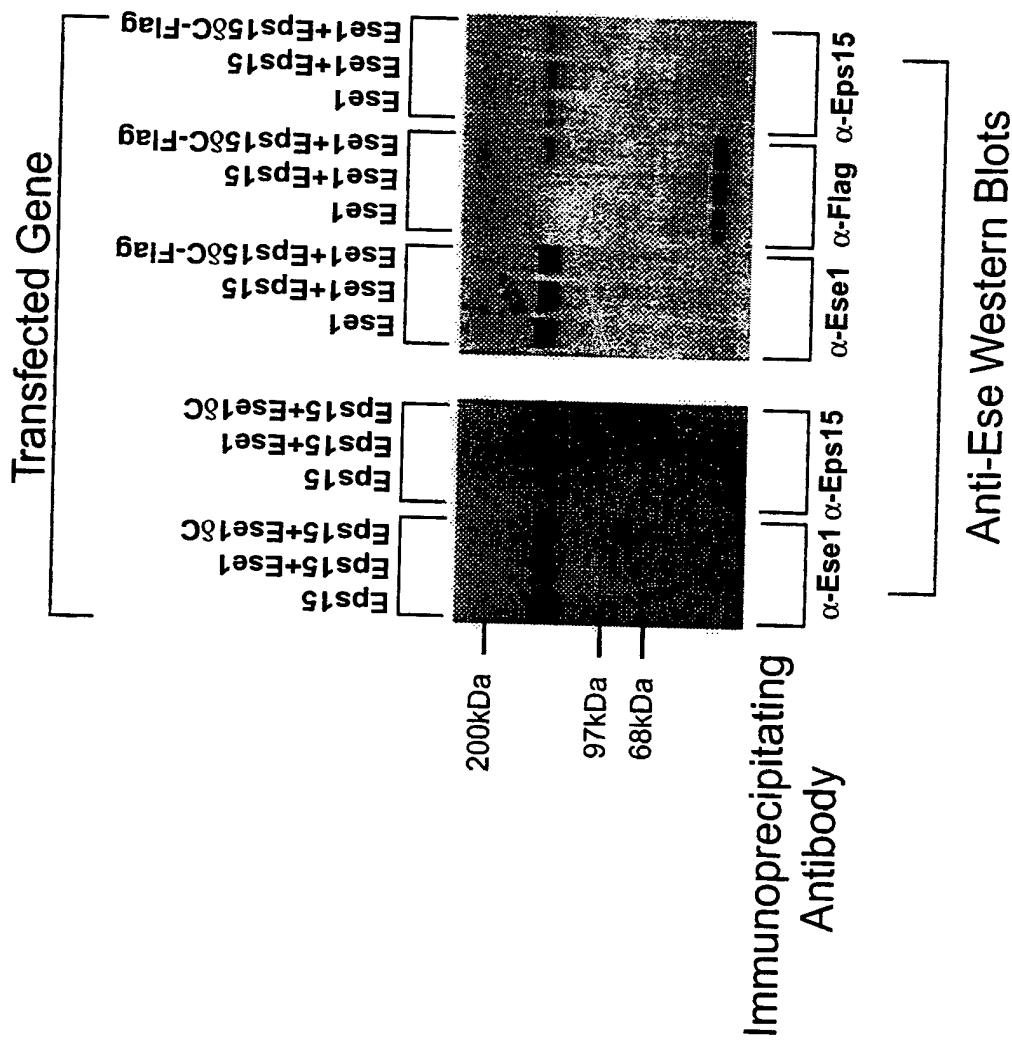


FIGURE 3B

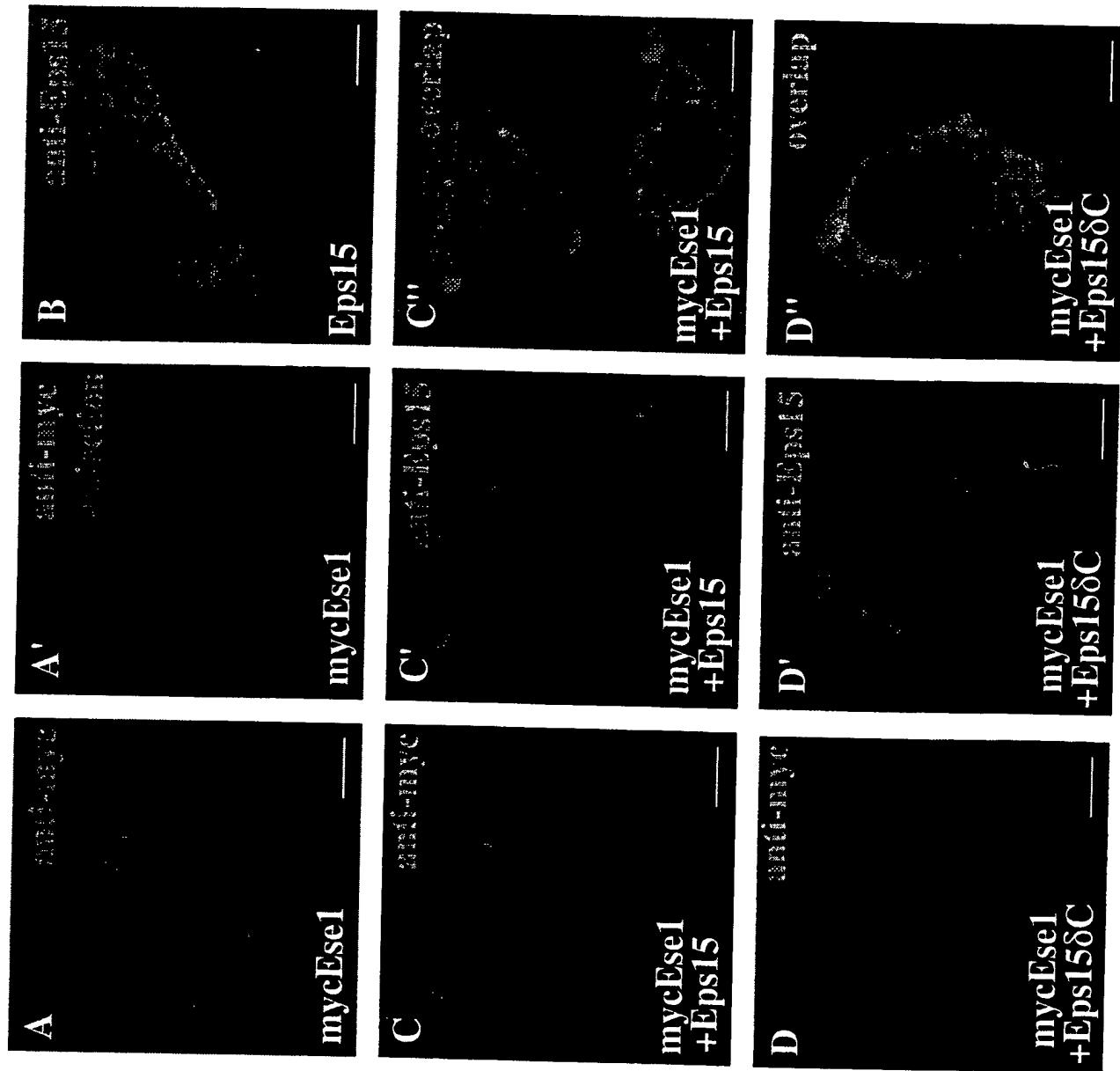
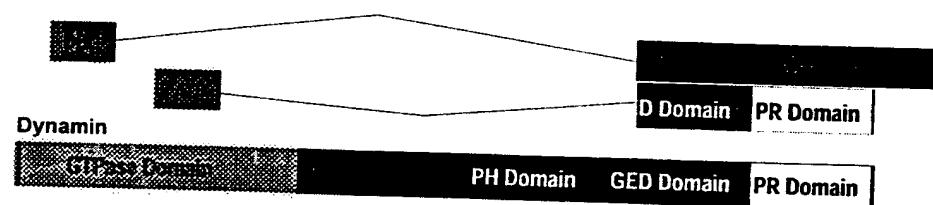
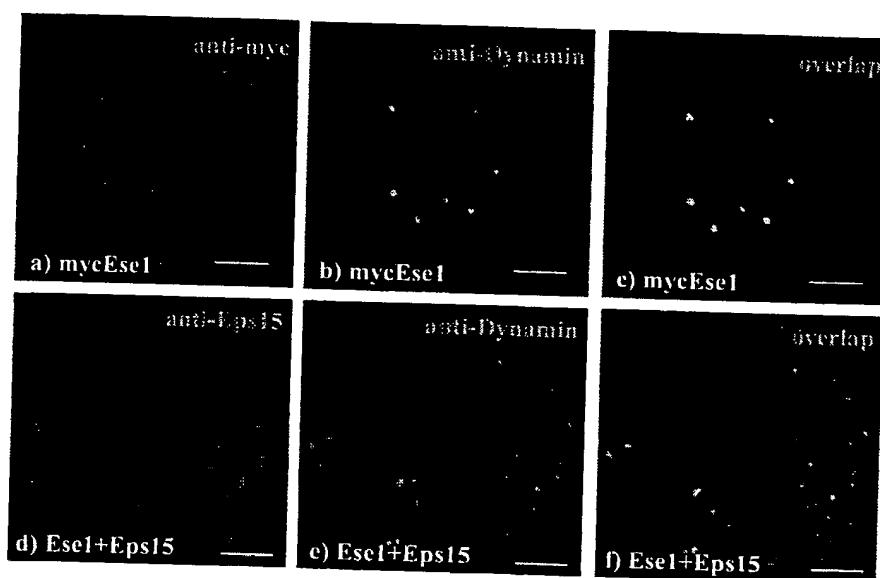


FIGURE 4

**A) Yeast two hybrid screen: Dynamin binds the Ese1 SH3 domains****FIGURE 5A****B) Ese1 overexpression recruits endogenous Dynamin****FIGURE 5B**

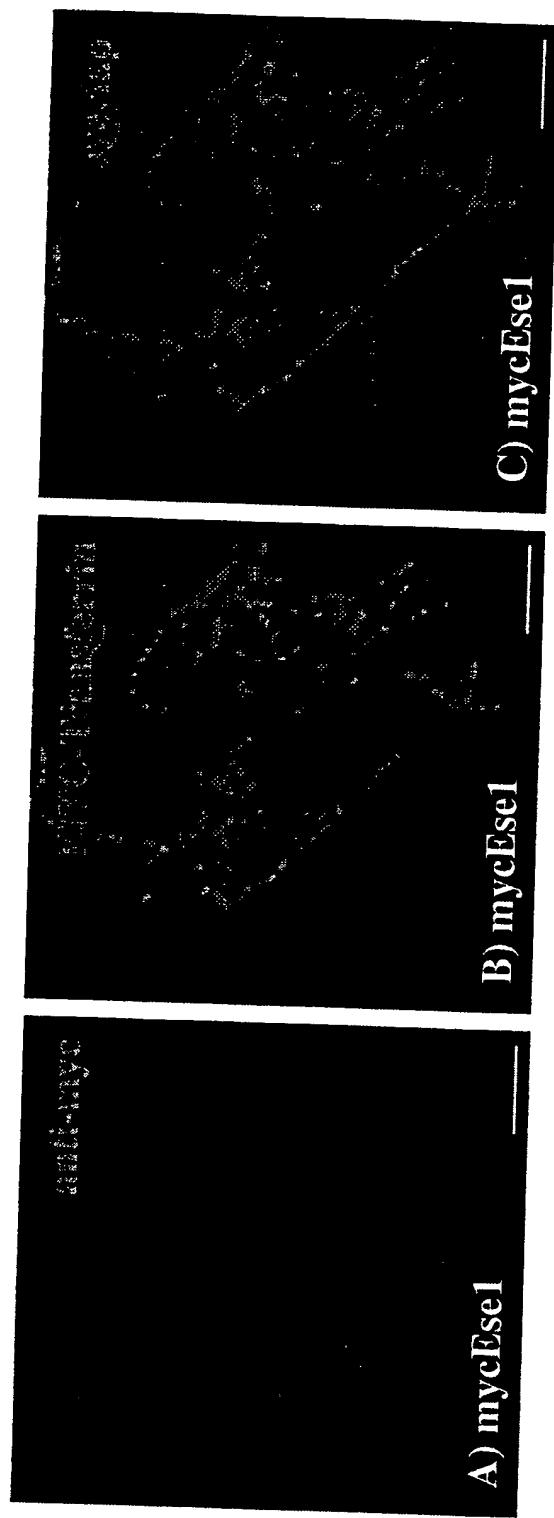


FIGURE 6

9/9

**Model: The Ese:Eps15 complex recruits critical components for coated pit formation and scission**

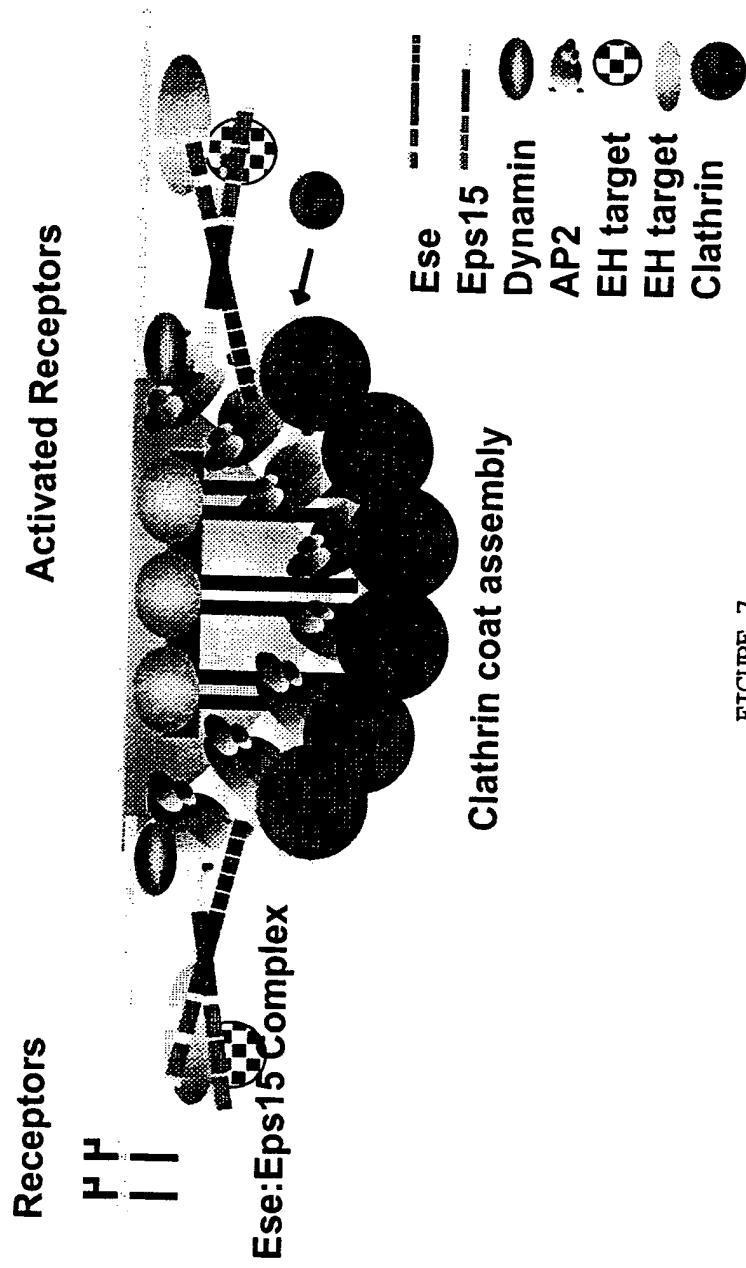


FIGURE 7